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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No : TC- 5548

TEST REPORT OF FINE AGGREGATE

Format No: CP/TF/01

Date: 05-08-2017

Lab ID	:	CP-2018-12-11-52
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Costruction of Compound Wall inter luck Tiles Gates to Indira Canteen in Ward No.14
Agency	:	Sri Shrirama Reddy No 62 Behind Widia Ashoka nagara Nagasandra Bangalore-73
Customer's Reference	:	ಕಾ.ಆ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-2017
Sample ID No	:	2018-12-11-52 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	03-08-2017
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	165	247	24.7	75.3	60-95	75-100	85-100	95-100
4	1.18 mm	177	424	42.4	57.6	30-70	55-90	75-100	90-100
5	600 micron	182	606	60.6	39.4	15-34	35-59	60-79	80-100
6	300 micron	177	783	78.3	21.7	5-20	8-30	12-40	15-50
7	150 micron	134	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No : TC- 5548

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-12-11-52

Date: 05-08-2017

Sample ID No : 2018-12-11-52 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.86	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	7.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

The results pertain to the samples received and tested.
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2018-12-11-52 Date: 10-08-2017
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Costruction of Compound Wall inter luck Tiles Gates to Indira Canteen in Ward No.14
Agency	:	Sri Shrirama Reddy No 62 Behind Widia Ashoka nagara Nagasandra Bangalore-73
Customer's Reference	:	ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಅ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-08-2017
Sample ID No	:	2018-12-11-52 /07
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	07-08-2017

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	152	203	12404	24.250	1955.0	1990.2	Not less than 1800Kg/m^3
2	401	150	201	12090	24.630	2037.2		
3	402	151	202	12262	24.260	1978.5		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	26.130	24.820	5.28	5.27	Shall not be more than 10% by mass
2	26.120	24.800	5.32		
3	25.820	24.540	5.22		

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Lab ID : CP-2018-12-11-52

Date: 10-08-2017

Sample ID No : 2018-12-11-52 /07

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	152	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	151	203	
3	403	153	201	
4	402	151	203	
5	401	153	201	
6	402	152	199	
7	403	151	202	
8	401	153	201	
9	403	151	203	
10	401	153	201	
11	402	151	203	
12	403	153	201	
13	401	151	200	
14	402	153	201	
15	401	149	203	
16	403	152	201	
17	401	151	203	
18	402	153	201	
19	403	150	203	
20	404	152	201	
Average of 20	**402**	**152**	**202**	

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ಬೆಂಗಳೂರು. ಜಾಲಹಳ್ಳಿ

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: CP-2018-12-11-52

Sample ID No : 2018-12-11-52 /07 Date: 10-08-2017

COMPRESSIVE STRENGTH:

Sl. No	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	152	61104	334.6	5.5	5.4
2	401	151	60551	322.8	5.3	
3	403	153	61659	313.1	5.1	
4	402	151	60702	329.9	5.4	
5	401	153	61353	345.2	5.6	
6	402	152	61104	351.9	5.8	
7	403	151	60853	313.6	5.2	
8	401	153	61353	341.5	5.6	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Quality Manager

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ಬಿ.ಡಿ.ಎ. ಉಪ-ವಿಭಾಗ
ಹಾಗಲಗುಂಟೆ, ಜಿಕೆಂಡಿ
ಬೆಂಗಳೂರು

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/08/2017

Lab ID	:	CP-2018-12-11-52
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Costruction of Compound Wall inter luck Tiles Gates to Indira Canteen in Ward No.14
Agency	:	Sri Shrirama Reddy No 62 Behind Widia Ashoka nagara Nagasandra Bangalore-73
Customer's Reference	:	ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಉ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-2017
Sample ID No	:	2018-12-11-52 /01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/08/2017	19/08/2017	150.34 X 151.24 X 149.94	22738	8.308	273.9	12.0	12.5
2	PCC	M15	12/08/2017	19/08/2017	150.98 X 149.66 X 150.71	22597	8.907	283.3	12.5	
3	PCC	M15	12/08/2017	19/08/2017	149.39 X 151.97 X 149.36	22703	8.234	293.9	12.9	

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